

S. Kaushal

Re-run

1636 Page 1 of 8



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

1 <110> APPLICANT: AMRAD Operations Pty Ltd
2 <120> TITLE OF INVENTION: A NOVEL MAMMALIAN GENE, bcl-2, BELONGS TO THE bcl-2
3 FAMILY OF APOPTOSIS-CONTROLLING GENES
4 <130> FILE REFERENCE: 2096584
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/155,327E
6 <141> CURRENT FILING DATE: 1999-03-29
7 <150> PRIOR APPLICATION NUMBER: PN8965
8 <151> PRIOR FILING DATE: 1996-03-27
9 <160> NUMBER OF SEQ ID NOS: 9
10 <170> SOFTWARE: PatentIn Ver. 2.1
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 33
14 <212> TYPE: DNA
15 <213> ORGANISM: Mouse
16 <220> FEATURE:
17 <221> NAME/KEY: modified_base
18 <222> LOCATION: 16
19 <223> OTHER INFORMATION: n is inosine
20 <220> FEATURE:
21 <221> NAME/KEY: modified_base
22 <222> LOCATION: 19
23 <223> OTHER INFORMATION: n is inosine
24 <220> FEATURE:
25 <221> NAME/KEY: modified_base
26 <222> LOCATION: 22
27 <223> OTHER INFORMATION: n is inosine
28 <220> FEATURE:
29 <221> NAME/KEY: modified_base
30 <222> LOCATION: 25
31 <223> OTHER INFORMATION: n is inosine
32 <400> SEQUENCE: 1
W--> 33 gctctagaac tgggnhgnr tngtngcctt ytt 33
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 9
37 <212> TYPE: PRT
38 <213> ORGANISM: Mouse
39 <220> FEATURE:
40 <221> NAME/KEY: Unsure
41 <222> LOCATION: 5
42 <223> OTHER INFORMATION: Xaa is Ile or Val
43 <400> SEQUENCE: 2
W--> 44 Asn Trp Gly Arg Xaa Val Ala Phe Phe
45 1 5

ENTERED

RECEIVED

JUN 28 2002

TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 31
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Mouse
 51 <220> FEATURE:
 52 <221> NAME/KEY: modified_base
 53 <222> LOCATION: 14
 54 <223> OTHER INFORMATION: n is inosine
 55 <220> FEATURE:
 56 <221> NAME/KEY: modified_base
 57 <222> LOCATION: 17
 58 <223> OTHER INFORMATION: n is inosine
 59 <220> FEATURE:
 60 <221> NAME/KEY: modified_base
 61 <222> LOCATION: 20
 62 <223> OTHER INFORMATION: n is inosine
 63 <400> SEQUENCE: 3 31
 W--> 64 ggaattccca gccnccntkn tcttggatcc a
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 8
 68 <212> TYPE: PRT
 69 <213> ORGANISM: Mouse
 70 <220> FEATURE:
 71 <221> NAME/KEY: Unsure
 72 <222> LOCATION: 4
 73 <223> OTHER INFORMATION: Xaa is Asp or Glu
 74 <220> FEATURE:
 75 <221> NAME/KEY: Unsure
 76 <222> LOCATION: 5
 77 <223> OTHER INFORMATION: Xaa is Asn or Gln
 78 <400> SEQUENCE: 4
 W--> 79 Trp Ile Gln Xaa Xaa Gly Gly Trp
 80 1 5
 82 <210> SEQ ID NO: 5
 83 <211> LENGTH: 14
 84 <212> TYPE: PRT
 85 <213> ORGANISM: Mouse
 86 <400> SEQUENCE: 5
 87 Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val 10
 88 1 5
 90 <210> SEQ ID NO: 6
 91 <211> LENGTH: 583
 92 <212> TYPE: DNA
 93 <213> ORGANISM: HUMAN
 94 <220> FEATURE:
 95 <221> NAME/KEY: CDS
 96 <222> LOCATION: (1)..(579)
 97 <400> SEQUENCE: 6 48
 98 atg gcg acc cca gcc tcg gcc cca gac aca cg gct ctg gtg gca gac

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

99	Met Ala Thr Pro Ala Ser Ala Pro Asp Thr Arg Ala Leu Val Ala Asp			
100	1	5	10	15
101	ttt gta ggt tat aag ctg agg cag aag ggt tat gtc tgc gct gca			96
102	Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly			
103	20	25	30	
104	ccc ggg gag ggc cca gca gct gac ccg ctg cac caa gcc atg cgg gca			144
105	Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala			
106	35	40	45	
107	gct gga gat gag ttc gag acc cgc ttc cgg cgc acc ttc tct gat ctg			192
108	Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu			
109	50	55	60	
110	gcg gct cag ctg cat gtg acc cca ggc tca gcc cag caa cgc ttc acc			240
111	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
112	65	70	75	80
113	cag gtc tcc gac gaa ctt ttt caa ggg ggc ccc aac tgg ggc cgc ctt			288
114	Gln Val Ser Asp Glu Leu Phe Gln Gly Pro Asn Trp Gly Arg Leu			
115	85	90	95	
116	gta gcc ttc ttt gtc ttt ggg gct gca ctg tgc tgc gat gag agt gtc aac			336
117	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
118	100	105	110	
119	aag gag atg gaa cca ctg gtg gga caa gtg cag gag tgg atg gtg gcc			384
120	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala			
121	115	120	125	
122	tac ctg gag acg cgg ctg gct gac tgg atc cac agc agt ggg ggc tgg			432
123	Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp			
124	130	135	140	
125	gct ggg aca gct cta tac ggg gac ggg gcc ctg gag gag gcg cgg			
126	Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg			
127	145	150	155	160
128	cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg			528
129	Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly			
130	165	170	175	
131	gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc			576
132	Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser			
133	180	185	190	
134	aag tgaa			583
135	Lys			
137	<210> SEQ ID NO: 7			
138	<211> LENGTH: 193			
139	<212> TYPE: PRT			
140	<213> ORGANISM: HUMAN			
141	<400> SEQUENCE: 7			
142	Met Ala Thr Pro Ala Ser Ala Pro Asp Thr Arg Ala Leu Val Ala Asp			
143	1	5	10	15
144	Phe Val Gly Tyr Lys Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly			
145	20	25	30	
146	Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala			
147	35	40	45	
148	Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

149	50	55	60	
150	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
151	65	70	75	80
152	Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu			
153	85	90		95
154	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
155	100	105		110
156	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Ala			
157	115	120		125
158	Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp			
159	130	135		140
160	Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg			
161	145	150		160
162	Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly			
163	165	170		175
164	Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser			
165	180	185		190
166	Lys			
168	<210> SEQ ID NO: 8			
169	<211> LENGTH: 582			
170	<212> TYPE: DNA			
171	<213> ORGANISM: Mouse			
172	<220> FEATURE:			
173	<221> NAME/KEY: CDS			
174	<222> LOCATION: (1)..(579)			
175	<400> SEQUENCE: 8			
176	atg gcg acc cca gcc tca acc cca gac aca cg ^g gct cta gt ^g gct gac			48
177	Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp			
178	1	5	10	15
179	t ^{tt} gta ggc tat agg ctg agg cag aag ggt tat gtc tgt gga gct ggc			96
180	Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly			
181	20	25		30
182	cct ggg gaa ggc cca gcc gac cc ^g ctg cac caa gcc atg cg ^g gct			144
183	Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala			
184	35	40	45	
185	gct gga gac gag t ^{ttt} gag acc cgt ttc cgc cgc acc ttc tct gac ctg			192
186	Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu			
187	50	55	60	
188	gcc gct cag cta cac gt ^g acc cca ggc tca gcc cag caa cgc ttc acc			240
189	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
190	65	70	75	80
191	cag gtt tcc gac gaa ctt ttc caa ggg ggc cct aac tgg ggc cgt ctt			288
192	Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu			
193	85	90		95
194	gt ^g gca ttc ttt gtc ttt ggg gct gcc ctg tgt gct gag agt gtc aac			336
195	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
196	100	105		110
197	aaa gaa atg gag cct ttg gt ^g gga caa gt ^g cag gat tgg atg gt ^g gcc			384
198	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:54

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

199	115	120	125	
200	tac ctg gag aca cgt ctg gct gac tgg atc cac agc agt ggc ggc tgg			432
201	Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp			
202	130	135	140	
203	gcg gag ttc aca gct cta tac ggg gac ggg gcc ctg gag gag gca cgg			480
204	Ala Glu Phe Thr Ala Leu Tyr Asp Gly Ala Leu Glu Glu Ala Arg			
205	145	150	155	160
206	cgt ctg cgg gag ggg aac tgg gca tca gtg agg aca gtg ctg acg ggg			528
207	Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly			
208	165	170	175	
209	gcc gtg gca ctg ggg gcc ctg gta act gta ggg gcc ttt ttt gct agc			576
210	Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser			
211	180	185	190	
212	aag tga			582
213	Lys			
215 <210>	SEQ ID NO: 9			
216 <211>	LENGTH: 193			
217 <212>	TYPE: PRT			
218 <213>	ORGANISM: Mouse			
219 <400>	SEQUENCE: 9			
220	Met Ala Thr Pro Ala Ser Thr Pro Asp Thr Arg Ala Leu Val Ala Asp			
221	1	5	10	15
222	Phe Val Gly Tyr Arg Leu Arg Gln Lys Gly Tyr Val Cys Gly Ala Gly			
223	20	25	30	
224	Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala			
225	35	40	45	
226	Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu			
227	50	55	60	
228	Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr			
229	65	70	75	80
230	Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu			
231	85	90	95	
232	Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn			
233	100	105	110	
234	Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Asp Trp Met Val Ala			
235	115	120	125	
236	Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp			
237	130	135	140	
238	Ala Glu Phe Thr Ala Leu Tyr Asp Gly Ala Leu Glu Glu Ala Arg			
239	145	150	155	160
240	Arg Leu Arg Glu Gly Asn Trp Ala Ser Val Arg Thr Val Leu Thr Gly			
241	165	170	175	
242	Ala Val Ala Leu Gly Ala Leu Val Thr Val Gly Ala Phe Phe Ala Ser			
243	180	185	190	
244	Lys			

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:55

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 16,19,22,25

Seq#:2; Xaa Pos. 5

Seq#:3; N Pos. 14,17,20

Seq#:4; Xaa Pos. 4,5

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/155,327E

DATE: 06/25/2002
TIME: 10:23:55

Input Set : N:\paola\US09155327E.RAW
Output Set: N:\CRF3\06252002\I155327E.raw

L:5 M:270 C: Current Application Number differs, Wrong Format
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0